

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L14   | 10   | !12 and @ad<"20051019"  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR               | OFF     | 2011/07/29<br>15:43 |
| L13   | 6    | !11 and @ad<"20051019"  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR               | OFF     | 2011/07/29<br>15:43 |
| L12   | 12   | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)<br>and first same code same second and mutual\$3 with authentic\$5 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>BM_TDB       | OR               | OFF     | 2011/07/29<br>15:42 |
| L11   | 6    | !9 and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR               | OFF     | 2011/07/29<br>15:42 |
| L10   | 24   | !8 and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR               | OFF     | 2011/07/29<br>15:42 |
| L9    | 8    | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)<br>and immobilizer and mutual with authentication                  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR               | OFF     | 2011/07/29<br>15:42 |

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| L8 | 24 | l7 and @ad<"20051019"  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:39 |
| L7 | 35 | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)<br>and mutual\$3 with authenticat\$4 and (key fob)                                      | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:39 |
| L6 | 33 | updat\$3 and (immobilizer) same (vehicle car automobile) and (340/5.72.<br>ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)                        | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:34 |
| L5 | 7  | mutual\$3 with authenticat\$3 and (immobilizer) same (vehicle car<br>automobile) and (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls.<br>340/5.31.ccls.) | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:33 |
| L4 | 10 | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)<br>and (mutual and authentication).clm.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:32 |
| L3 | 0  | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)<br>and (antenna and mutual and authentication).clm.                                     | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:31 |
| L2 | 0  | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.)<br>and (antenna and mutual and authentication and immobilizer).clm.                     | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:31 |

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| L1  | 0    | (340/5.72.ccls. 340/5.1.ccls. 340/5.2.ccls. 340/5.64.ccls. 340/5.31.ccls.) and (antenna and storage and mutual and authentication and immobilizer).cldm. | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/29<br>15:31 |
| S61 | 9    | S60 and (vehicle and immobilizer)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>BM_TDB       | OR | OFF | 2011/07/25<br>22:10 |
| S60 | 1675 | first same code same second and mutual\$3 with authentic\$5  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>BM_TDB       | OR | OFF | 2011/07/25<br>22:10 |
| S59 | 62   | S58 and update with (code key)   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>22:01 |
| S58 | 523  | S57 and (@ad<"20051019" @rlad<"20051019")  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>22:00 |
| S57 | 610  | mutual\$3 with authenticat\$3 and (immobilizer fob key) same (vehicle car automobile)  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:59 |
| S56 | 134  | updat\$3 and mutual\$3 with authenticat\$4 and key with fob  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:57 |
| S55 | 129  | updat\$3 and mutual with authentication and key with fob   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:57 |

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| S54 | 3667 | updat\$3 and mutual with authentication  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:57 |
| S53 | 26   | immobilizer and mutual with authentication   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:56 |
| S52 | 7    | S51 and updat\$3   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:53 |
| S51 | 26   | mutual with authenticat\$4 and vehicle and immobilizer                               | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:52 |
| S50 | 1    | (encrypt\$3 and mutual and authentication and processor) and vehicle and immobilizer | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:51 |
| S49 | 93   | (encrypt\$3 and mutual and authentication and processor).clm.                        | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:50 |
| S48 | 3    | (antenna and encrypt\$3 and mutual and authentication and processor).clm.            | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:50 |
| S47 | 1    | (antenna and storage and mutual and authentication and immobilizer).clm.             | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:44 |

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| S46 | 1   | ("380"/.cds. "713"/.cds. "726"/.cds.) and (antenna and storage and mutual and authentication and immobilizer).dm.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2011/07/25<br>21:44 |
| S45 | 29  | first adj mutual adj authentication same second adj mutual adj authentication  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/11/20<br>21:09 |
| S44 | 7   | second with mutual with authentication and immobilizer   | US-PGPUB;<br>USPAT;<br>DERWENT                               | OR | OFF | 2010/11/20<br>20:51 |
| S43 | 6   | S42 and mutual   | US-PGPUB;<br>USPAT;<br>DERWENT                               | OR | OFF | 2010/11/20<br>20:44 |
| S42 | 15  | (US-20070067632-\$ or US-20040056776-\$ or US-20080122595-\$ or US-20060152348-\$ or US-20040064698-\$ or US-20060076834-\$ or US-20060214766-\$).did. or (US-6332572-\$ or US-5191610-\$ or US-4596985-\$ or US-5241598-\$ or US-6043752-\$ or US-6335576-\$ or US-7327227-\$).did. or (US-20040056776-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                               | OR | OFF | 2010/11/20<br>20:43 |
| S41 | 17  | S40 and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/11/09<br>13:43 |
| S40 | 26  | S39 and (transponder immobilizer) and (car vehicle automobile)   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/11/09<br>13:41 |
| S39 | 650 | first with code with second and mutual\$3 with authentic\$5  | US-PGPUB;<br>USPAT;<br>DERWENT                               | OR | OFF | 2010/11/09<br>13:41 |
| S38 | 11  | S37 and updat\$3 with memory   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/11/03<br>08:23 |

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| S37 | 83  | S36 and @ad<"20051019"                                 | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/03<br>08:23 |
| S36 | 168 | transmitter and vehicle and mutual with authentication | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/03<br>08:22 |
| S35 | 2   | update with code same immobilizer                      | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/03<br>01:22 |
| S34 | 15  | S33 and @ad<"20051019"                                 | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/01<br>23:10 |
| S33 | 23  | immobilizer and mutual with authentication             | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/01<br>23:10 |
| S32 | 3   | S31 and @ad<"20051019"                                 | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/01<br>19:48 |
| S31 | 4   | S28 and mutual\$3 with authentic\$5                    | US-PGPUB;<br>USPAT;<br>DERWENT                                | OR | OFF | 2010/11/01<br>19:47 |
| S30 | 3   | S29 and @ad<"20051019"                                 | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/11/01<br>19:47 |

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| S29 | 4  | S28 and mutual   | US-PGPUB;<br>USPAT;<br>DERWENT                               | OR | OFF | 2010/11/01<br>19:47 |
| S28 | 13 | (US-20070067632-\$ or US-20040056776-\$ or US-20080122595-\$ or US-20060152348-\$ or US-20040064698-\$ or US-20060076834-\$).did. or (US-6332572-\$ or US-5191610-\$ or US-4596985-\$ or US-5241598-\$ or US-6043752-\$ or US-6335576-\$).did. or (US-20040056776-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT                               | OR | OFF | 2010/11/01<br>19:46 |
| S27 | 2  | "6335576".pn.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/02/22<br>14:45 |
| S26 | 19 | S25 and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/02/13<br>22:51 |
| S25 | 27 | mutual with authentication same vehicle and \$4theft   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2010/02/13<br>22:51 |
| S24 | 7  | S23 and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/08/28<br>21:49 |
| S23 | 7  | remote with control and updat\$3 with code and vehicle\$1 and (immobilizer) same (vehicle car automobile) and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/08/28<br>21:49 |
| S22 | 14 | mutual\$3 with authenticat\$3 and (immobilizer) same (vehicle car automobile) and @ad<"20051019"   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/08/28<br>21:48 |

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| S21 | 18  | S20 and (car vehicle automobile)  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/05/23<br>18:12 |
| S20 | 177 | S19 and @ad<"20051019"  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/05/23<br>18:12 |
| S19 | 221 | 713/169.cds. and mutual\$2 same authenticat\$3  | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2009/05/23<br>18:12 |
| S18 | 14  | S17 and @ad<"20051019"  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/05/23<br>18:08 |
| S17 | 22  | mutual\$3 with authenticat\$3 and (immobilizer) same (vehicle car automobile)                                   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/05/23<br>18:07 |
| S16 | 2   | "6043752".pn.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/05/23<br>15:37 |
| S15 | 0   | S13 and immobilizer   | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/09/30<br>14:43 |
| S14 | 713 | remote with control and updat\$3 with code and vehicle\$1   | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/09/30<br>14:42 |
| S13 | 2   | 713/169.cds. and updat\$3 with code and vehicle\$1  | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/09/30<br>14:41 |
| S12 | 0   | 713/169.cds. and updat\$3 with code same vehicle\$1   | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/09/30<br>14:41 |
| S11 | 41  | ("4596985"   "4792783"   "5191610"   "5461386"   "5477214"  <br>"5724028"   "5841363").PN. OR ("6043752").URPN. | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/09/30<br>14:39 |



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| S10 | 2  | "6043752".pn.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2008/09/30<br>14:38 |
| S9  | 1  | ("0748966").PN.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2008/08/12<br>11:31 |
| S8  | 2  | ("20040056776").PN.   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2008/08/12<br>11:07 |
| S7  | 5  | ("2004107959").PN.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2008/08/12<br>11:05 |
| S6  | 2  | (10/181533).APP.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2008/08/12<br>11:03 |
| S5  | 0  | ("1018153360437522004107959200456776748966").PN.  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2008/08/12<br>11:02 |
| S4  | 1  | "20070067632"   | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/08/08<br>17:25 |
| S3  | 2  | "20030135504"   | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/08/08<br>16:37 |
| S2  | 15 | ("5870550"   "5890170"   "5903892"   "5987454"   "6035330"  <br>"6049821"   "6144991"   "6243700"   "6289341"   "6317777"  <br>"6327045"   "6510461"   "6564257"   "6578078"   "6662310").PN. OR<br>("6895402").URPN. | US-PGPUB;<br>USPAT; USOCR                                    | OR | OFF | 2008/08/08<br>15:04 |

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| S1 | 2 | "6895402".pn. | US-PGPUB;<br>USPAT; FPRS;<br>EPC; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/08/08<br>14:46 |
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7/29/2011 3:46:38 PM

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